

IN THE SPECIFICATION

Please amend the paragraph appearing at page 2, lines 19-25, as follows:

al
According to the super heterodyne system, however, since an image frequency is generated when the RF signal is down-converted into the IF signal, it is necessary to provide a band pass filter for an IF circuit. A SAW filter is used as such a band pass filter. It is, therefore, difficult to form an integrated circuit and it becomes an obstacle to miniaturization.

Please amend the paragraph appearing at page 3, lines 5-10, as follows:

az
In the case of using the direct conversion system, a low pass filter is inserted after the I signal and Q signal are orthogonally demodulated by the multiplier. As such a low pass filter, since the base band signal is directly demodulated, a frequency which is handled is low and it is difficult to use the SAW filter.

Please amend the paragraph appearing at page 11, lines 1-14, as follows:

A3 cont.
Since the subordinate LPF 21 has the phase characteristics when the signal passes through the subordinate LPF 21, a phase difference according to the phase characteristics is caused between the input signal and the output signal. The signal from the signal generating circuit 22 and the signal from the signal generating circuit 22 in which the phase has been shifted by the passage through the subordinate LPF 21 are supplied to the phase difference detecting